Supplementary

Appendix 1

The initial search strategy in December 2022.
Database: Medline (Ovid), *MEDLINE(R) ALL (OvidSP)*
Date: 2022-12-07
No of results: 1363 ref

#	Searches	Results
1	exp Anterior Cruciate Ligament Injuries/	12502
2	Anterior Cruciate Ligament/	12035
3	(injuries or injury or injured or tear or tears or rupture or ruptures or ruptured).ab,kf,ti.	1128321
4	2 and 3	5508
5	((ACL or (anterior adj5 cruciate adj5 ligament*)) adj4 (injuries or injury or injured or tear or tears or rupture or ruptures or ruptured)).ab,kf,ti.	10195
6	1 or 4 or 5	17254
7	(injur* adj3 (pattern* or cause* or situation*)).ab,kf,ti.	50395
8	(situational pattern* or mechanism* or biomechanical analysis or injury video* or video analysis).ab,kf,ti.	2628760
9	7 or 8	2668886
10	6 and 9	1618
11	limit 10 to english language	1487
12	(comment or editorial).pt.	1419801
13	11 not 12	1470
14	(animals not (animals and humans)).sh.	5038960
15	(animal or animals or rat or rats or mouse or mice or rodent or rodents or dog or dogs or cat or cats or hamster or hamsters or rabbit or rabbits or swine or murine or porcine or horses or horse).ti.	2073890
16	14 or 15	5436105
17	13 not 16	1363

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Database: Embase (Ovid), 1974 to 2022 December 06
Date: 2022-12-07
No of results: 1907 ref

#	Searches	Results
1	exp anterior cruciate ligament injury/	12580
2	anterior cruciate ligament/	13289
3	(injuries or injury or injured or tear or tears or rupture or ruptures or ruptured).ab,kf,ti.	1434139
4	2 and 3	6119
5	((ACL or (anterior adj5 cruciate adj5 ligament*)) adj4 (injuries or injury or injured or tear or tears or rupture or ruptures or ruptured)).ab,kf,ti.	12674
6	1 or 4 or 5	19801
7	(injur* adj3 (pattern* or cause* or situation*)).ab,kf,ti.	64407
8	(situational pattern* or mechanism* or biomechanical analysis or injury video* or video analysis).ab,kf,ti.	3157950
9	7 or 8	3209144
10	6 and 9	2192
11	limit 10 to english language	2022
12	limit 11 to (article or article in press or conference abstract or conference paper or erratum or letter or note or "preprint (unpublished, non-peer reviewed)" or "review" or short survey)	2007
13	(animal not (animal and human)).sh.	1169578
14	(animal or animals or rat or rats or mouse or mice or rodent or rodents or dog or dogs or cat or cats or hamster or hamsters or rabbit or rabbits or swine or murine or porcine or horses or horse).ti.	2216438
15	13 or 14	3113636
16	12 not 15	1907

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Database: The Cochrane Library (Wiley)
Date: 2022-12-07
No of results: 103
Trials: 103
Editorials: 0
Special collections: 0
Clinical answers: 0

ID	Search	Hits
#1	MeSH descriptor: [Anterior Cruciate Ligament Injuries] explode all trees	937
#2	MeSH descriptor: [Anterior Cruciate Ligament] explode all trees	688
#3	(injuries OR injury OR injured OR tear OR tears OR rupture OR ruptures OR ruptured):ti,ab,kw (Word variations have been searched)	83095
#4	#2 AND #3	548
#5	(((ACL OR (anterior NEAR/4 cruciate NEAR/4 ligament*)) NEAR/3 (injuries OR injury OR injured OR tear OR tears OR rupture OR ruptures OR ruptured))):ti,ab,kw (Word variations have been searched)	1906
#6	#1 OR #4 OR #5	1949
#7	(injur* NEAR/2 (pattern* OR cause* OR situation*)):ti,ab,kw (Word variations have been searched)	1186
#8	(situational NEXT pattern* OR mechanism* OR "biomechanical analysis" OR injury NEXT video* OR "video analysis"):ti,ab,kw (Word variations have been searched)	65585
#9	#7 OR #8	66633
#10	#6 AND #9 in Cochrane Reviews, Cochrane Protocols, Trials, Clinical Answers, Special Collections	103

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Database: Amed (Ebsco)
Date: 2022-12-08

No of results: 204 ref#	Query	Results
S11	S6 AND S9 Expanders - Apply related words; Apply equivalent subjects Narrow by Language: - english	204
S10	S6 AND S9	206
S9	S7 OR S8	16,307
S8	TI (situational pattern* OR mechanism* OR biomechanical analysis OR injury video* OR video analysis) OR AB (situational pattern* OR mechanism* OR biomechanical analysis OR injury video* OR video analysis) OR KW (situational pattern* OR mechanism* OR biomechanical analysis OR injury video* OR video analysis)	15,691
S7	TI ((injur* N2 (pattern* OR cause* OR situation*)) OR AB ((injur* N2 (pattern* OR cause* OR situation*)) OR KW ((injur* N2 (pattern* OR cause* OR situation*))	765
S6	S1 OR S4 OR S5	1,495
S5	TI (((ACL OR (anterior N4 cruciate N4 ligament*)) N3 (injuries OR injury OR injured OR tear OR tears OR rupture OR ruptures OR ruptured))) OR AB (((ACL OR (anterior N4 cruciate N4 ligament*)) N3 (injuries OR injury OR injured OR tear OR tears OR rupture OR ruptures OR ruptured))) OR KW (((ACL OR (anterior N4 cruciate N4 ligament*)) N3 (injuries OR injury OR injured OR tear OR tears OR rupture OR ruptures OR ruptured)))	984
S4	S2 AND S3	1,210
S3	TI (injuries OR injury OR injured OR tear OR tears OR rupture OR ruptures OR ruptured) OR AB (injuries OR injury OR injured OR tear OR tears OR rupture OR ruptures OR ruptured) OR KW (injuries OR injury OR injured OR tear OR tears OR rupture OR ruptures OR ruptured)	36,008
S2	(ZU "anterior cruciate ligament")	1,671
S1	(ZU "anterior cruciate ligament injuries")	11

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Database: Pedro
Date: 2022-12-09
No of results: 49 references in total, out of which 15 are duplicates. There are 34 unique references.

Comment: Pedro has limitations combining search terms. Search was conducted in "Simple search". 18 separate searches have been conducted to cover the search.

#	Search terms	Resultat
#	anterior cruciate ligament injur* pattern*	10
#	anterior cruciate ligament injur* situation*	2
#	anterior cruciate ligament injur* cause*	10
#	anterior cruciate ligament injur* mechanism*	7
#	anterior cruciate ligament injur* biomechanical analysis	7
#	anterior cruciate ligament injur* video analysis	0
#	anterior cruciate ligament tear* pattern*	2
#	anterior cruciate ligament tear* situation*	0
#	anterior crucate ligament tear* cause*	2
#	anterior cruciate ligament tear* mechanism*	3
#	anterior cruciate ligament tear* biomechanical analysis	2
#	anterior cruciate ligament tear* video analysis	0
#	anterior cruciate ligament rupture* pattern*	0
#	anterior cruciate ligament rupture* situation*	1
#	anterior cruciate ligament rupture* cause*	3
#	anterior cruciate ligament rupture* mechanism*	0
#	anterior cruciate ligament rupture* biomechanical analysis	0
#	anterior cruciate ligament rupture* video analysis	0

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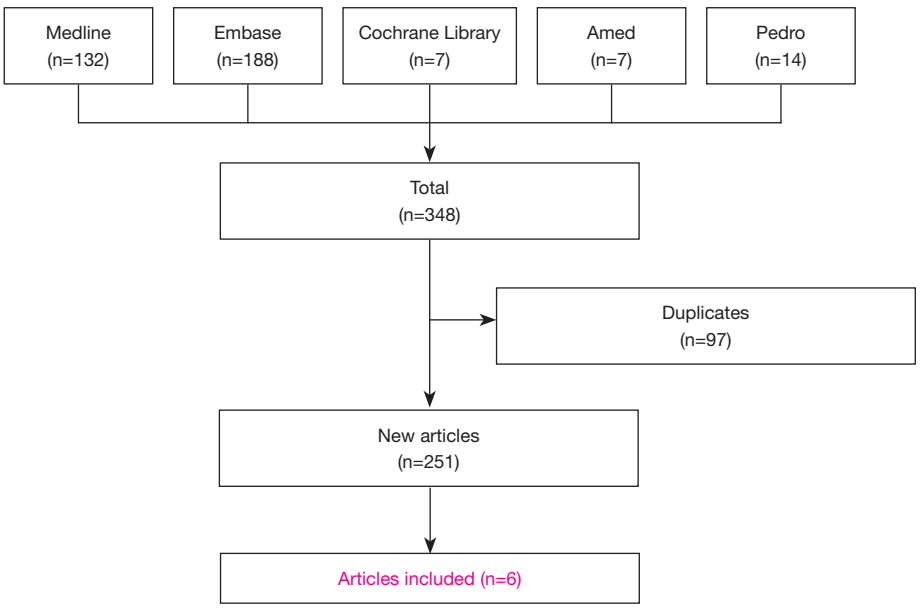
Appendix 2

The updated search in October 2023 used the same search strategy with the following results.



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